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Work Order No. 11098-011-001-1162-40  
Revision 0

**NON-SAMPLING RECOMMENDATION MEMORANDUM  
FOR  
COVITCH PROPERTY/FORMER ATF DAVIDSON CO.  
NORTHBRIDGE, MASSACHUSETTS**

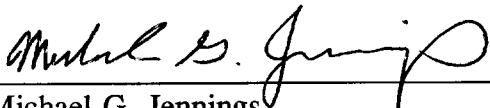
CERCLIS No. MAD046128559  
TDD No. 95-07-0065

Submitted by:

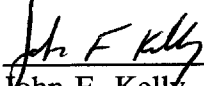
Roy F. Weston, Inc. (WESTON®)  
Superfund Technical Assessment and Response Team (START)  
217 Middlesex Turnpike  
Burlington, MA 01803

Submittal date: 6 March 1997

Region I START  
Reviewed and Approved:

  
\_\_\_\_\_  
Michael G. Jennings  
Site Leader

7 March 1997  
\_\_\_\_\_  
Date

  
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John F. Kelly  
Project Leader

3/7/97  
\_\_\_\_\_  
Date

EPA-New England  
Reviewed and Approved:

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Nancy Smith  
Site Assessment Manager (SAM)

\_\_\_\_\_  
Date





## NON-SAMPLING RECOMMENDATION MEMORANDUM

TO: Ms. Nancy Smith (EPA-New England Site Assessment Manager)

FROM: Mr. Michael G. Jennings, Site Leader      DATE: 6 March 1997  
THRU: Mr. John F. Kelly, Project Leader

PROJECT: START Site Inspection Prioritization      W.O. NO.: 11098-011-001-1162-40

SUBJECT: Non-sampling Recommendation  
Covitch Property/Former ATF Davidson Co.  
Northbridge, Massachusetts  
CERCLIS No. MAD046128559  
TDD No. 95-07-0065

The Roy F. Weston, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) conducted an on-site reconnaissance on 2 May 1996 for the Covitch Property/Former ATF Davidson Co. property in Northbridge, Massachusetts, as part of the Site Inspection Prioritization (SIP). Based on observations by START personnel and available file information, no environmental sampling is recommended at the property. The rationale for this recommendation, based on a preliminary HRS evaluation of the property, follows.

Available data, collected by START personnel from Federal, State, and local files and at the Covitch Property/Former ATF Davidson, Co. property on 2 May 1996, characterize the types and quantities of waste handled and disposed of on site. Based on preliminary SI Worksheet evaluations, the site scores  $> 28.5$ , based on a Hazardous Waste Quantity (HWQ) value of 100, third party data which document an observed release to the groundwater; the high toxicity  $\times$  mobility score for vinyl chloride (10,000), and a large number of potential groundwater targets.

### SOURCES

For this evaluation the property is considered a multiple source site. The primary source driving the HWQ value is a large foundry waste landfill located on the property. This source was evaluated based on the area of the landfill (Tier D). The surficial extent of the landfill is approximately 730,000 square feet. The resulting multiple source waste quantity (WQ) value based solely on the landfill is 223.01. The resulting HWQ value is 100. The landfill is evaluated as being available to all pathways. Other sources located on the property include: two areas of contaminated soil, two drum sources, two debris piles, several transformers which were formerly located on the property and a smaller area of landfilled material.

## **GROUNDWATER PATHWAY**

Analytical data collected from numerous groundwater studies, conducted by Caswell, Eichler, Hill, Inc. (CEH) indicate that several volatile organic compounds (VOCs) have been detected above reference values in the groundwater below the property. Detected VOC concentrations range from 9 parts per billion (ppb) to 1,100 ppb. There are no known Level I or Level II municipal or private drinking water wells associated with the property.

An estimated 24,345 people located within 4-radial miles of the property utilize public and private groundwater wells for their drinking water.

The groundwater pathway score for the property was calculated to be 71.04. The high pathway score is due, primarily, to potential groundwater targets and the high toxicity×mobility score for an observed release of vinyl chloride. Vinyl chloride, associated with a contaminated soil source, has been detected in the groundwater below the property. This results in a Waste Characteristic (WC) value of 32 for the groundwater pathway.

## **SURFACE WATER PATHWAY**

The property borders the Mumford River for approximately 1.1 miles. The 15-mile surface water downstream pathway includes approximately 4.5 miles of flow along the Mumford River and 10.5 miles of flow along the Blackstone River.

There are several sensitive environments located along the 15-mile downstream surface water pathway. There are approximately 2.86 miles of wetlands frontage along the Mumford River and approximately 5.44 miles of wetlands frontage along the Blackstone River portions of the 15-mile downstream surface water pathway. There are two occurrences of State-listed Species of Concern along the Mumford River portion of the downstream pathway. Along the Blackstone River portion of the downstream pathway there are two occurrences of State-listed Threatened/Endangered Species, as well as six occurrences of State-listed Species of Concern.

There are no known municipal drinking water intakes located along the downstream pathway. However, a surface water intake, used for the irrigation of commercial food crops at the Sherman-Baker Farm, is located along the Mumford River in Uxbridge, Massachusetts. The surface water intake is approximately 2 miles downstream of the large dam on the Covitch property.

The surface water pathway score for the property, based on potential targets is 1.979.

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## **SOIL EXPOSURE**

The soil exposure pathway score for the property could not be determined because no known surficial soil samples have been collected on the property, to date. A residence and a school (Alternatives Unlimited Day Habitation Program) are located on the property. The students and faculty of the school are not likely targets for soil exposure due to the fact that activities are limited to within the on-site building. The building is not believed to be located on or within 200 feet of a source. The on-site residents are not likely targets for soil exposure because these people are also generally not on a source or within 200 feet of a source.

## **AIR**

Four people reside on the subject property: an employee of Whitinsville Redevelopment Trust, his wife, and their two children. According to the CENTRACTS report, prepared by Frost Associates, Inc. for the property, an estimated 27,419 people live within 4-radial miles of the property.

No Federal-Proposed, -Threatened, or -Endangered Species are located within 4-radial miles of the property. However, there is one occurrence of State-Threatened/Endangered Species and seven occurrences of State-listed Species of Concern.

There are approximately 1,448 acres of wetlands within a 4-mile radius of the property.

To date no known air samples have been collected on the property. The air pathway score for the property was calculated to be 16.07, based on potential air pathway targets.

MGJ:mgj

Attachment